

FIG. 1

<u>For Binary Comparison:</u>	<u>For Full Intensity Comparison:</u>
Read number of detections in library image ($N_{library}$)	Read number of detections in library image ($N_{library}$)
Set the intensity of all above- zero pixels to a value of one	Determine average pixel intensity of above-threshold pixels ($\bar{I}_{library}$)

FIG. 2

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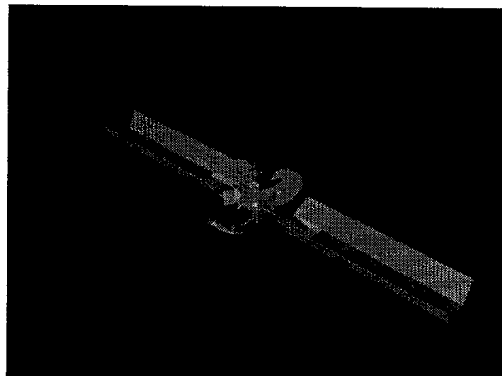


FIG. 3

<u>For Binary Comparison:</u>	<u>For Full Intensity Comparison:</u>
Determine number of detections of object image (N_{object})	Determine number of detections of object image (N_{object})
Offset origin of object image ($(\tilde{X}_{\text{object}}, \tilde{Y}_{\text{object}})$) to upper left corner = (0, 0)	Offset origin of object image ($(\tilde{X}_{\text{object}}, \tilde{Y}_{\text{object}})$) to upper left corner = (0, 0)
	Determine average pixel intensity of above-threshold pixels \bar{I}_{object}

FIG. 4

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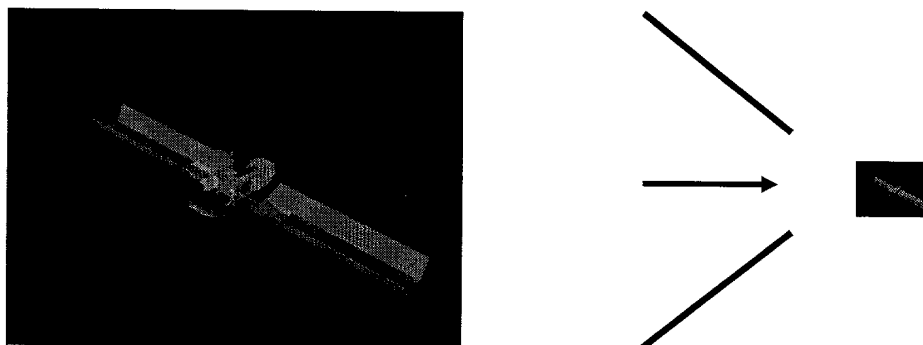


FIG. 5

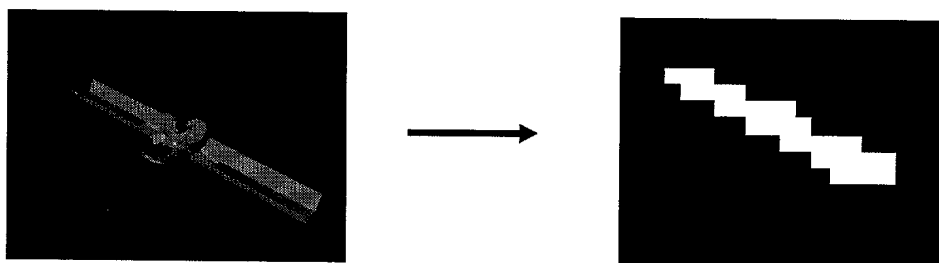


FIG. 6

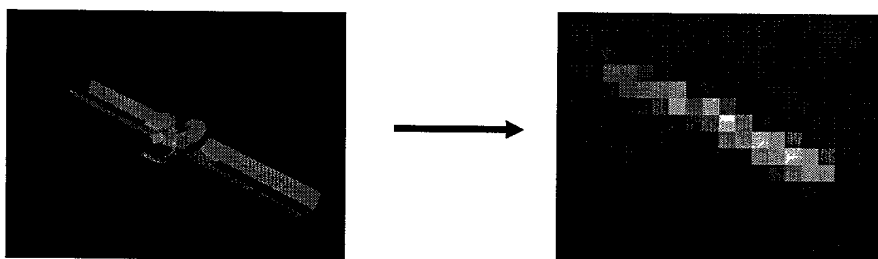


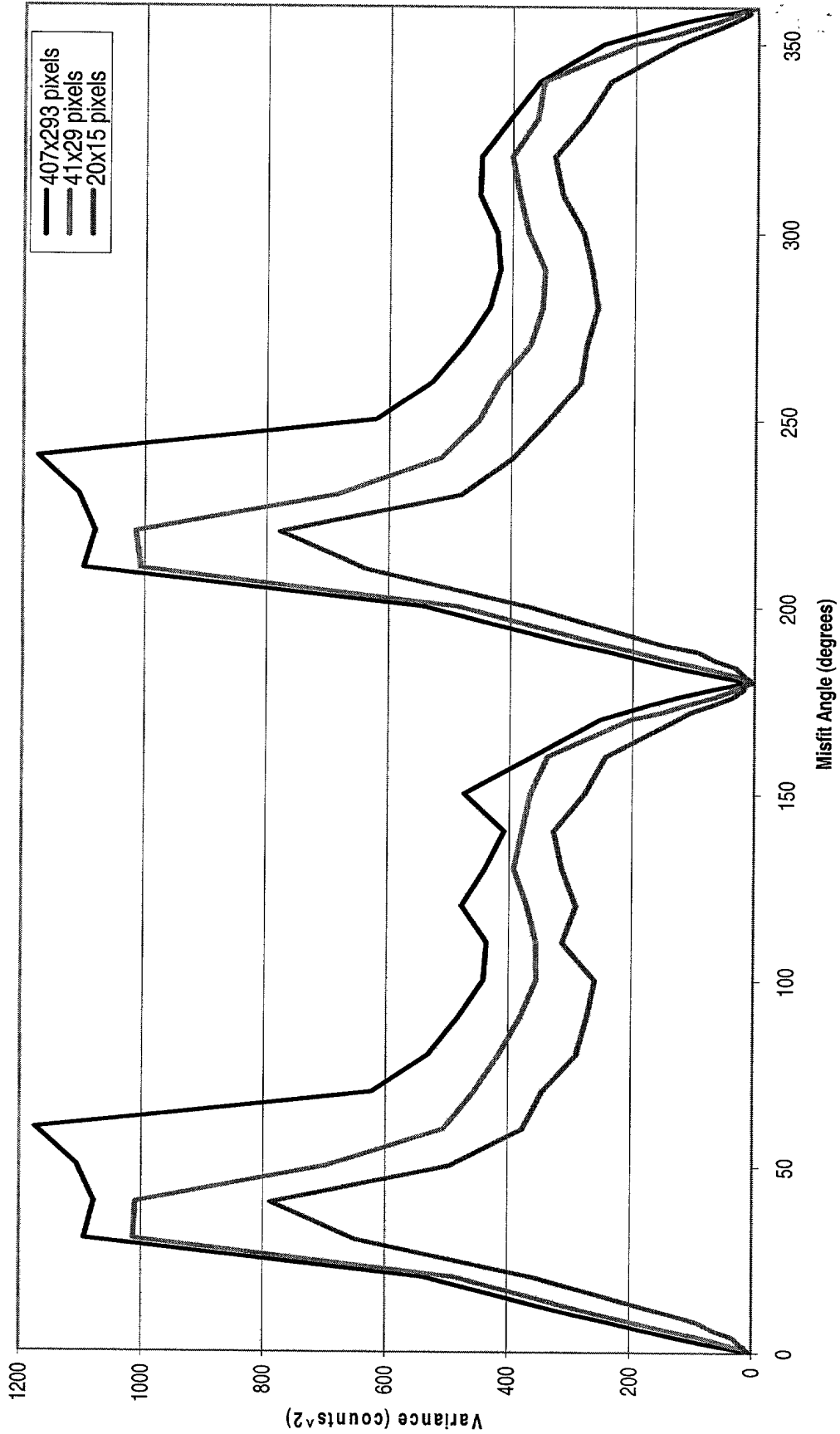
FIG. 7

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True position = 0 Y, 0 P, 0 R
Sun = 400, 400, 400
Earth = 1000, 8.75, -1192
Camera = 200, 200, 200 (50 mm)

Fit Variance vs. Yaw Misfit
Various Image Resolution
(No Pitch or Roll Misfit)

FIG. 8a

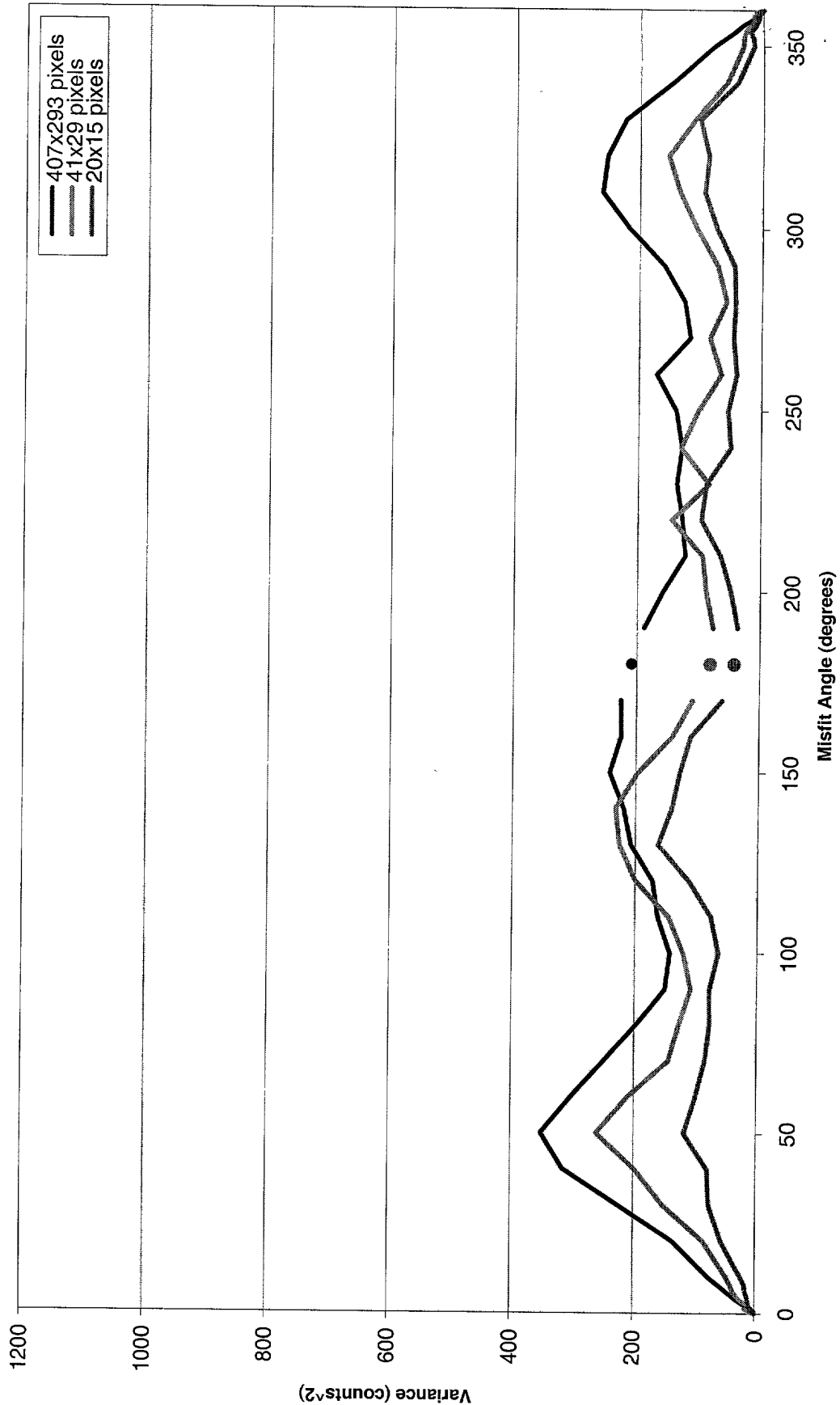


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True position = 0 Y, 0 P, 0 R
 Sun = 400, 400, 400
 Earth = 1000, 8.75, -1192
 Camera = 200, 200, 200 (50 mm)

Fit Variance vs. Pitch Misfit
 Various Image Resolution
 (No Yaw or Roll Misfit)

FIG. 8b



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